

ESL1040A2 Pin-Schottky Diode Limiter

1.0-4.0 GHz Broadband



Technical Characteristics

Product Features

- Power Handling: 1 watt CW, 100W peak power
(1 usec Pulse Width, 0.1% Duty Cycle Derated to 20% @ +125 °C)
- Internal DC block
- Fast recovery time - 200 uSec typ.
- Limiting threshold above +4dBm typ. & low typical output leakage
- Low insertion loss

Maximum Ratings

- Storage Temperature.....-65° to +125°C
- Operating Temperature.....-55° to +90°C
- Max Input Power.....+2 watts CW, 100 watts peak

Product Export Classification

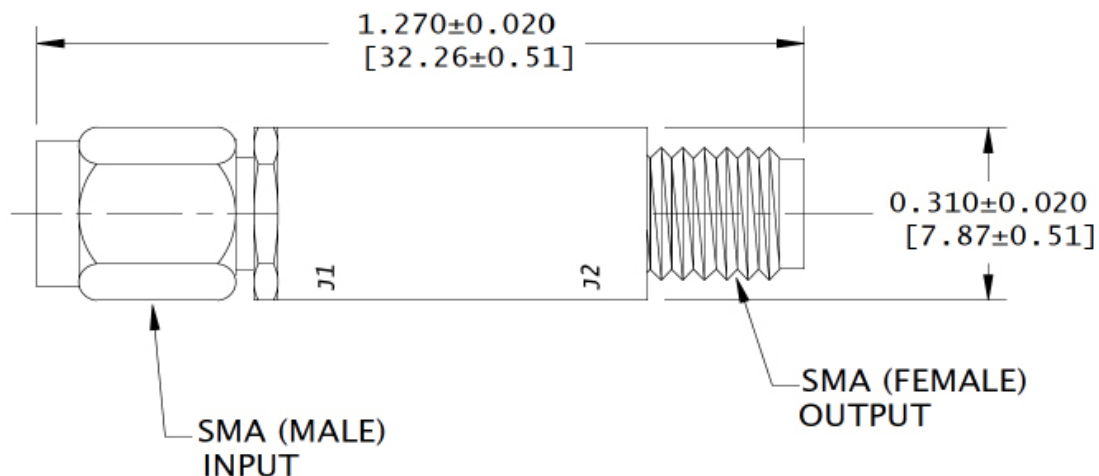
- ECCN: EAR 99 (unless otherwise specified)
- HTS: 85543.70.8000

Specifications @ +25°C & -10 dBm input power.

Electrical Specifications

| Parameters | Freq. (GHz) | Min. | Typical | Max. | Units |
|-----------------------|-------------|------|---------|------|----------|
| Insertion Loss | 0.5 to 4.0 | | 0.8 | | dB |
| VSWR | 0.5 to 4.0 | | 1.5:1 | | - |
| Leakage Power (CW) | 0.5 to 4.0 | | | +16 | dBm CW |
| | | | | +20 | dBm Peak |
| Operating Temperature | | -55 | | +90 | °C |

Outline drawing



Notes:

1. Limiter has an internal DC block.
2. Typical values are measured at +25°C and are not guaranteed.